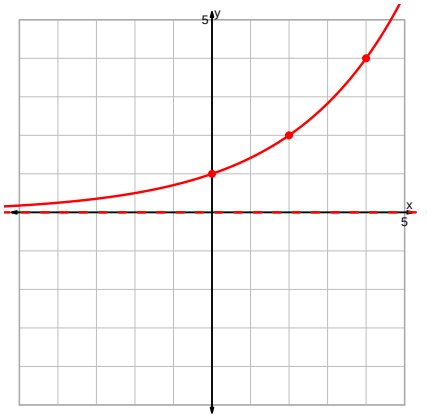
NAME: DATE:

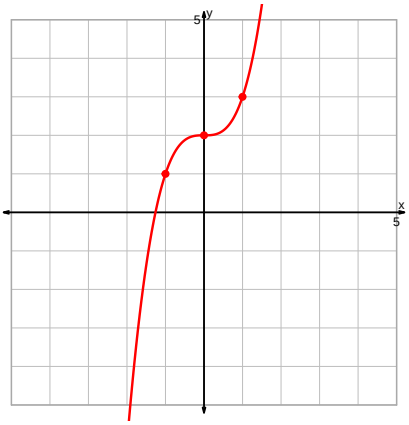
Unit-2 Reduced Mastery Assessment (version 0)

Question 1 (20 points)

Graph the equations accurately. For each integer-integer point on the parent, indicate the corresponding point precisely. Also, with dashed lines, indicate any asymptotes.

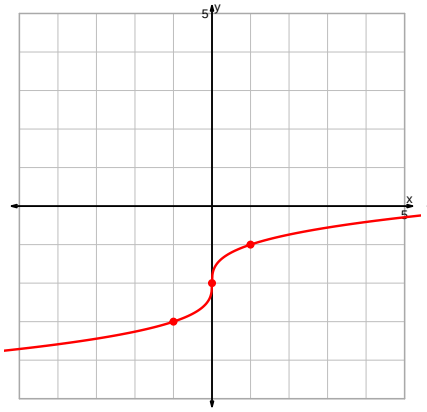
$y = 2^{\frac{x}{2}}$

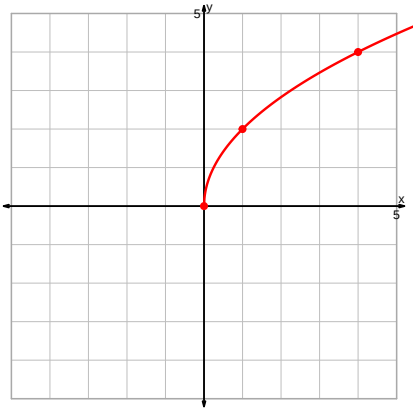




$y = x^3 + 2$

$y = \sqrt[3]{x} - 2$

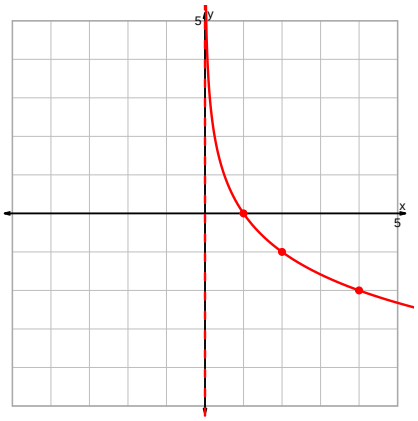


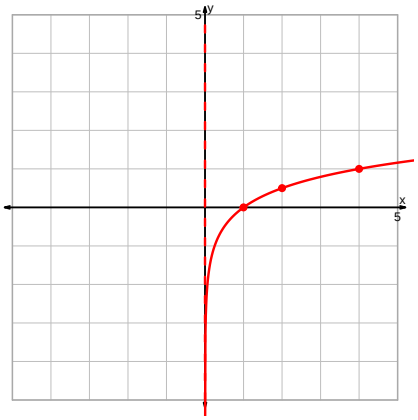


$y = 2 \cdot \sqrt{x}$

Question 2 continued. . .

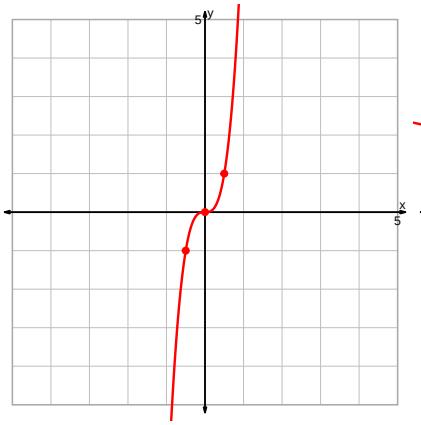
$y = -\log_2(x)$

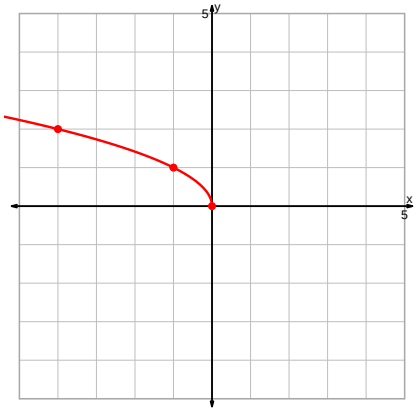




$y = \dfrac{\log_2(x)}{2}$

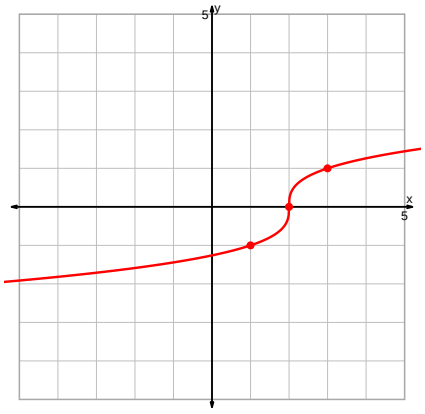
$y = (2x)^3$

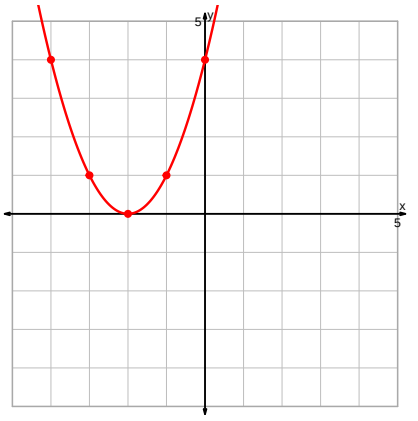




$y = \sqrt{-x}$

$y = \sqrt[3]{x-2}$

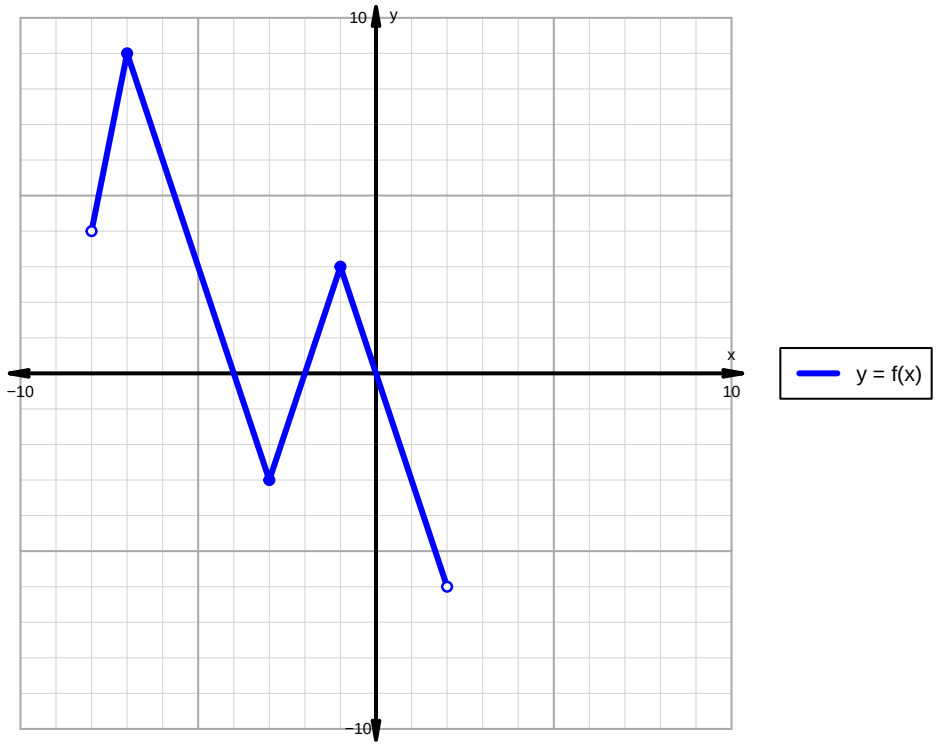




$y = (x+2)^2$

Question 2 (20 points)

A function is graphed below.



Indicate the following intervals using interval notation.

Feature	Where
Positive	$(-8,-4) \cup (-2,0)$
Negative	$(-4,-2) \cup (0,2)$
Increasing	$(-8,-7) \cup (-3,-1)$
Decreasing	$(-7,-3) \cup (-1,2)$
Domain	$(-8,2)$
Range	$(-6,9)$